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NOTICE OF ALLOWANCE AND FEE(S) DUE

7590

07/01/2002

AGILENT TECHNOLOGIES
Legal Department, 51UPD
Intellectual Property Administration
P. O. Box 58043
Santa Clara, CA 95052-8043

EXAMINER				
LANEAU, RONALD				
ART UNIT	CLASS-SUBCLASS			
2674	345-158000			

DATE MAILED: 07/01/2002

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/691,318	10/18/2000	Gary B. Gordon 10951105-6		2923

TITLE OF INVENTION: METHOD AND SYSTEM FOR TRACKING ATTITUDE

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1280	\$0	\$1280	10/01/2002

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above. If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

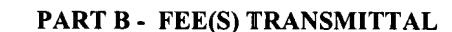
A. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

B. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

If the SMALL ENTITY is shown as NO:

- A. Pay TOTAL FEE(S) DUE shown above, or
- B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.
 - □ Applicant claims SMALL ENTITY status. See 37 CFR 1.27.
- II. PART B FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.
- III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Box ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.



Complete and send this form, together with applicable fee(s), to: Mail Box ISSUE FEE

Commissioner for Patents Washington, D.C. 20231

Fax (703)746-4000

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 4 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for

maintenance fee notifications. CURRENT CORRESPONDENCE ADDRESS (Note: Legibly mark-up with any corrections or use Block I) Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other 7590 07/01/2002 accompanying papers. Each additional paper, such as an assignment or **AGILENT TECHNOLOGIES** formal drawing, must have its own certificate of mailing or transmission. Legal Department, 51UPD Certificate of Mailing or Transmission **Intellectual Property Administration** I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an P. O. Box 58043

velope addressed to the Box Issue Fee address above, or being facsimile nsmitted to the USPTO, on the date indicated below.	envelop transmi
(Depositor's name)	
(Signature)	
(Date)	

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09/691,318	10/18/2000	Gary B. Gordon	10951105-6	2923

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Santa Clara, CA 95052-8043

(Authorized Signature)

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nonprovisional	NO	\$1280	\$0	\$1280	10/01/2002	
EXAM	INER	ART UNIT	CLASS-SUBCLASS			
LANEAU,	RONALD	2674	345-158000			
CFR 1.363). Change of correspond Address form PTO/SB/ "Fee Address" indica	ence address or indication of dence address (or Change of 122) attached. tion (or "Fee Address" Indi Jse of a Customer Numbe	f Correspondence	2. For printing on the patent from the names of up to 3 registered or agents OR, alternatively, (2) single firm (having as a mem attorney or agent) and the name registered patent attorneys or agent is listed, no name will be printed.	patent attorneys) the name of a ber a registered mes of up to 2 gents. If no name		
3. ASSIGNEE NAME AN	D RESIDENCE DATA TO	BE PRINTED ON THE F	PATENT (print or type)			
PLEASE NOTE: Unless been previously submitte (A) NAME OF ASSIGN:	an assignee is identified be d to the USPTO or is being EE		l appear on the patent. Inclusion cover. Completion of this form is IDENCE: (CITY and STATE OF		ate when an assignment has ignment.	
Please check the appropria 4a. The following fee(s) ar		-	on the patent)	☐ corporation or other private	group entity 🚨 government	
☐ Issue Fee		☐ A che	ck in the amount of the fee(s) is e	nclosed.		
Publication Fee		☐ Payment by credit card. Form PTO-2038 is attached.				
☐ Advance Order - # of	Conjes	☐ The C	The Commissioner is hereby authorized by charge the required fee(s), or credit any overpayment, Deposit Account Number(enclose an extra copy of this form).			

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

NOTE; The Issue Fee and Publication Fee (if required) will not be accepted from anyone

other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is

estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, D.C. 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO:

(Date)

Commissioner for Patents, Washington, DC 20231.



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09/691,318 10/18/2000		Gary B. Gordon	10951105-6	2923
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AGILENT TECH	NOLOGIES		LANEAU, RO	ONALD
Legal Department, Intellectual Propert			ART UNIT	PAPER NUMBER
P. O. Box 58043 Santa Clara, CA 95052-8043			2674	
			DATE MAILED: 07/01/2002	

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (application filed on or after May 29, 2000)

The patent term adjustment to date is 83 days. If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the term adjustment will be 83 days.

If a continued prosecution application (CPA) was filed in the above-identified application, the filing date that determines patent term adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system. (http://pair.uspto.gov)

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P	

	Application No.	Applicant(s)	
	09/691,318	GORDON, GARY B.	
Notice of Allowability	Examiner	Art Unit	
<u>. </u>	Ronald Laneau	2674	
The MAILING DATE of this communication apperall claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313 1. This communication is responsive to 4/5/02. 2. The allowed claim(s) is/are 17, 19, 20, and 22 now renum. 3. The drawings filed on are accepted by the Examine. 4. Acknowledgment is made of a claim for foreign priority under the second s	(OR REMAINS) CLOSED in th or other appropriate communic GHTS. This application is subj and MPEP 1308. bered as 1-4.	is application. If not included cation will be mailed in due capet to withdrawal from issue	d ourse. THIS
a) All b) Some* c) None of the:	ler 33 0.3.C. 9 119(a)-(a) or (1)	•	
1. Certified copies of the priority documents have	been received.		
2. Certified copies of the priority documents have	been received in Application N	lo	
3. Copies of the certified copies of the priority dod	cuments have been received in	this national stage application	on from the
International Bureau (PCT Rule 17.2(a)).			
* Certified copies not received: 5. Acknowledgment is made of a claim for domestic priority up to the translation of the fersion learning to the fersion learning.	_ , , , ,	rovisional application).	
(a) ☐ The translation of the foreign language provisional a6. ☒ Acknowledgment is made of a claim for domestic priority un		21	
Applicant has THREE MONTHS FROM THE "MAILING DATE" of below. Failure to timely comply will result in ABANDONMENT of the submarked of the subma	this application. THIS THREE itted. Note the attached EXAM	INER'S AMENDMENT or NO	XTENDABLE
 8. ☐ CORRECTED DRAWINGS must be submitted. (a) ☐ including changes required by the Notice of Draftspers 1) ☐ hereto or 2) ☐ to Paper No (b) ☐ including changes required by the proposed drawing of including changes required by the attached Examiner' 	correction filed, which has a second se	nas been approved by the Ex the Office action of Paper N	lo
Identifying indicia such as the application number (see 37 CFR 1, of each sheet. The drawings should be filed as a separate paper	=	_ ,	
9. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT FOR T			ote the
Attachment(s)			
 1⊠ Notice of References Cited (PTO-892) 3⊠ Notice of Draftperson's Patent Drawing Review (PTO-948) 5□ Information Disclosure Statements (PTO-1449), Paper No	4☐ Interview Solution 6☐ Examiner's 8☑ Examiner's 9☐ Other	Informal Patent Application (Pummary (PTO-413), Paper Note Amendment Comment Statement of Reasons for A RICHARD HJERPE CHNOLOGY CENTER COMMENT	No

Application/Control Number: 09/691,318

Art Unit: 2674

Allowable Subject Matter

1. Claims 17, 19, 20 and 22 are allowed now renumbered as 1-4 in view of applicant's arguments in the appeal brief.

The closest prior art, Durbin et al (6,003,773), discloses conventional rectangular photosensor elements, an optical sensing area that represents the result of the use of a typical solid state video imaging array with a lens system that provides a magnification ratio of ten to one. Durbin et al fail to anticipate or render obvious or even suggest:

An arrangement of a sensor and optics comprising:

As per claims 17 and 19, an array having a shape to achieve compensation of said curvilinear distortion, including having arcuate edges to establish said compensation;

wherein said photosensors are disposed in a plurality of columns and a plurality of rows and wherein said photosensors combine to define an optical axis for said array, adjacent columns being spaced apart by an arcuate boundary, with curvatures of said arcuate boundaries increasing with departure from said optical axis.

As per claims 20 and 22, an array having a shape to achieve compensation of said curvilinear distortion, including having a plurality of arcuate outer edges to establish said compensation; said photosensors being varied dimensionally to define said curvilinear shape, said curvilinear shape being aligned relative to said curvilinear distortion to introduce a physical distortion that offsets said optical curvilinear distortion;

wherein said photosensors are disposed in a plurality of columns and a plurality of rows and wherein said photosensors combine to define an optical axis for said array, adjacent columns Application/Control Number: 09/691,318

Art Unit: 2674

being spaced apart by an arcuate boundary, with curvatures of said arcuate boundaries increasing

with departure from said optical axis.

2. Any comments considered necessary by applicant must be submitted no later than the

payment of the issue fee and, to avoid processing delays, should preferably accompany the issue

fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for

Allowance."

3. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Ronald Laneau whose telephone number is 703-305-3973. The

examiner can normally be reached on Monday-Thursday from 8:00 AM to 6.00 PM or via email:

ronald.laneau@uspto.gov.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Richard Hjerpe can be reached at 703-305-4709.

4. Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231

or faxed to:

(703) 872-9314 (for Technology Center 2600 only)

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive,

Arlington, VA, Sixth Floor (Receptionist).

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Page 4

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology Center 2600 Customer Service Office whose telephone number is (703) 306-0377.

Ronald Laneau Examiner Art Unit 2674

> RICHARD HJERPE SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2600

rl June 14, 2002